**Key Words for Unit 1**

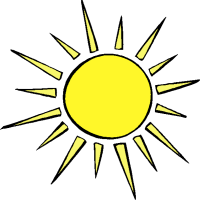
**Interactions and Ecosystems**



**Biotic = Living Things**

Plants, Fox, Insect, Rabbit,

Owl, Mouse, Weasel

[](http://www.google.ca/imgres?q=rocks&hl=en&sa=X&gbv=2&biw=1205&bih=718&tbs=itp:lineart&tbm=isch&tbnid=FJiWqkfpjTZJ7M:&imgrefurl=http://www.primaryclipart.com/search.php?search=rock%20wall&docid=VeDHvbvJ-gnSnM&imgurl=http://www.primaryclipart.com/images/rocks3.gif&w=121&h=116&ei=CEG7TrygPOPKiAK6__jdAQ&zoom=1&iact=rc&dur=0&sig=114549999371113244833&page=3&tbnh=92&tbnw=96&start=30&ndsp=15&ved=1t:429,r:1,s:30&tx=48&ty=46)

**Abiotic = Non-Living Things**

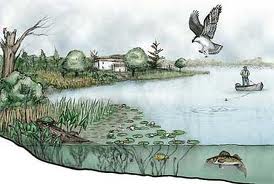
Air, Clouds, Water Sun Rocks, Soil

**Ecosystem = A place where Abiotic and Biotic parts work together.**

(Gopher + Dirt) (Boy + Plant + Dirt)

[](http://www.google.ca/imgres?q=plant&hl=en&gbv=2&biw=1205&bih=718&tbs=itp:lineart&tbm=isch&tbnid=42aiDQBz83uzYM:&imgrefurl=http://printables.kaboose.com/boy-planting-tree.html&docid=ZWUQoMDFprISsM&imgurl=http://printables.kaboose.com/img/boytree_rdax_65.jpg&w=350&h=290&ei=WEO7ToD-IIGoiQLsrN2GAg&zoom=1&iact=rc&dur=16&sig=114549999371113244833&page=5&tbnh=144&tbnw=173&start=60&ndsp=15&ved=1t:429,r:12,s:60&tx=132&ty=114)**[](http://www.google.ca/imgres?q=prairie&hl=en&gbv=2&biw=1205&bih=718&tbs=itp:lineart&tbm=isch&tbnid=EG8XWujlHV3zjM:&imgrefurl=http://www.colouringbook.org/art/svg/coloring-book/prairie-dog-black-white-line-art-coloring-book-colouring-letters-colouringbook-org-openclipart-org-commons-wikimedia-org/&docid=_I8jTBDitTd7FM&imgurl=http://clipartist.net/www/COLOURINGBOOK.ORG/Letters/P/prairie_dog_black_white_line_art_coloring_book_colouring-555px.png&w=555&h=472&ei=VEK7TsKXG-SZiQLdi-XtAQ&zoom=1&iact=rc&dur=0&sig=114549999371113244833&page=3&tbnh=139&tbnw=163&start=30&ndsp=15&ved=1t:429,r:5,s:30&tx=99&ty=103)  
Ecology = the study of ecosystems**

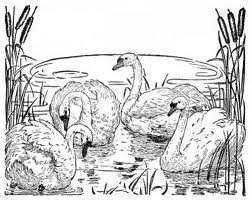
Lake Ecosystem Desert Ecosystem

**Habitat = Place where a plant or animal can usually be found in an ecosystem**

Bird Habitat is in the tree A Swan’s habitat is near the shoreline of a

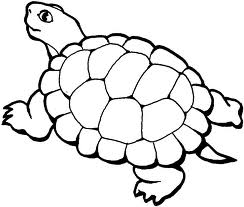
top in a forest Ecosystem pond ecosystem

[](http://www.google.ca/imgres?q=animal+habitats&um=1&hl=en&sa=X&biw=1367&bih=726&tbs=itp:lineart&tbm=isch&tbnid=H9_3f__96UX_GM:&imgrefurl=http://www.squidoo.com/forest-animals&docid=2T-G3pQpH5TVXM&imgurl=http://i55.tinypic.com/23kq6ox.jpg&w=331&h=262&ei=T_-7Ts2BE-iviQKuq6H0BA&zoom=1)

**Adaptation = something that helps a living thing survive better in its ecosystem.**

A turtle has a hard shell A Giraffe has a long neck to

for protection. Leaves high on a tree



**Symbiosis =** 2 or more different organisms living in the same area

There are 3 types: Mutualism, Commensalism, and Parasitism

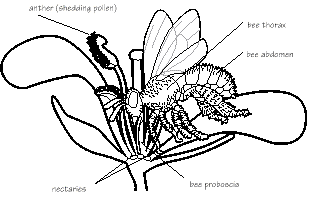
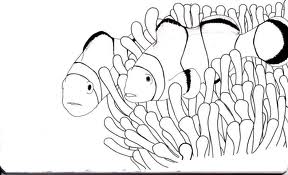
**Mutualism = Both organisms help each other**

A bee gets pollen to eat A Clownfish protects the sea

From the flower and the flower Anemone from fish that want to

Gets pollen spread to other flowers eat it and the Anemone stings

fish that try to eat the clownfish



**Commensalism = one organism gets helped the other one doesn’t .**

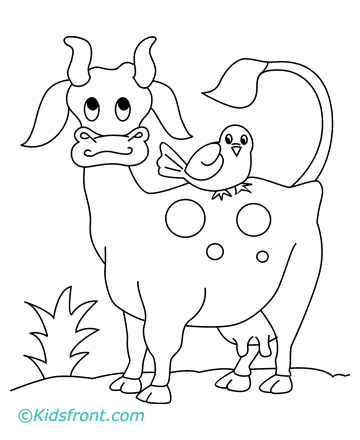
The starling bird gets insects An orchid flower gets water as it flows

that are stirred up from the down the tree. The tree gets nothing but

ground when the cow walks is not harmed.

[](http://www.google.ca/imgres?q=orchids+on+a+tree&um=1&hl=en&biw=1367&bih=726&tbs=itp:lineart&tbm=isch&tbnid=kDOUYBnsxsDafM:&imgrefurl=http://naturesketchers.blogspot.com/2009_04_26_archive.html&docid=xCQkIRuRuZNDBM&imgurl=http://2.bp.blogspot.com/__c1Iyc1wBOU/SfyP3rwtvLI/AAAAAAAAADs/KikqbA_JXNo/s400/Butterfly%2BOrchid.jpg&w=382&h=400&ei=1wu8TuveFu3MiQKvmczcAQ&zoom=1)around. The cow gets nothing

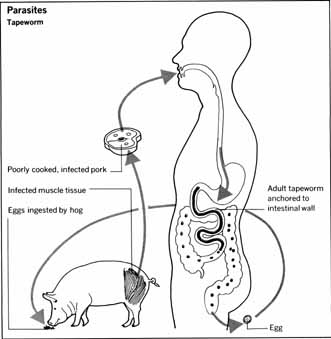
but is not harmed.



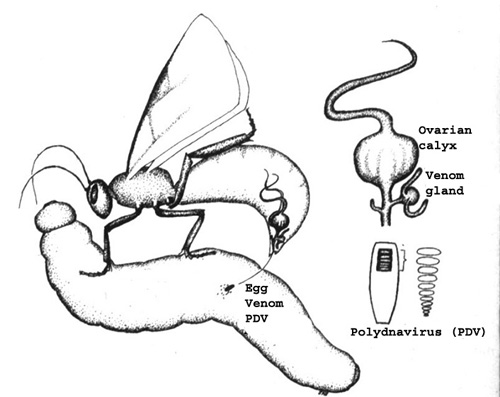
**Parasitism** = one organism is helped the other one is hurt.

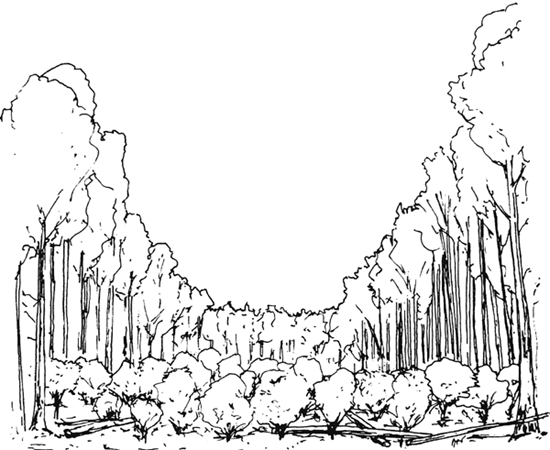
A parasitic wasp lays its A tapeworm eats the food inside people. The people

eggs inside the caterpillar get sick.

which hatch and eat the

caterpillar.



**Sustainability = resources are being renewed as fast as you are using them**

(eg) Are we planting trees as

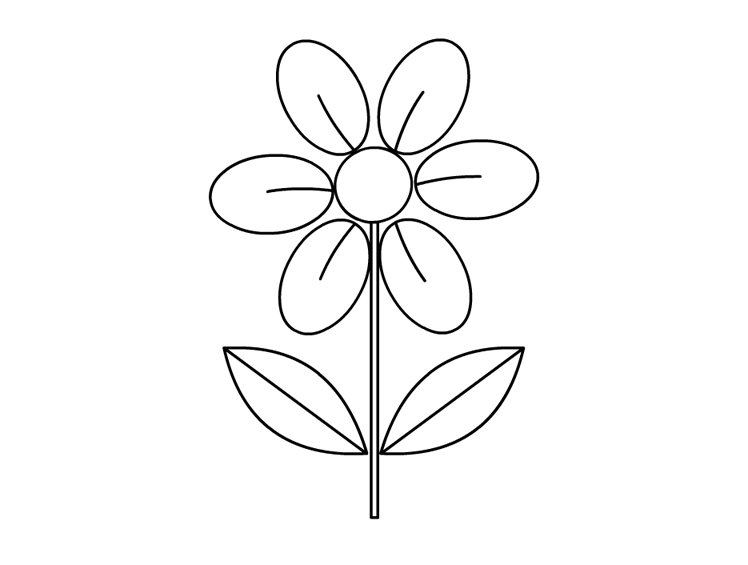
fast as we are cutting

them down?

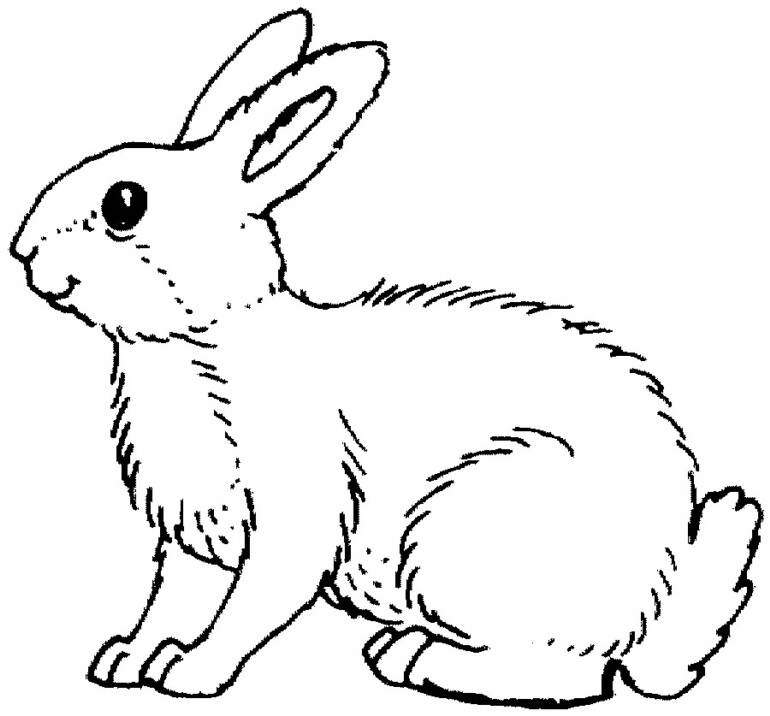


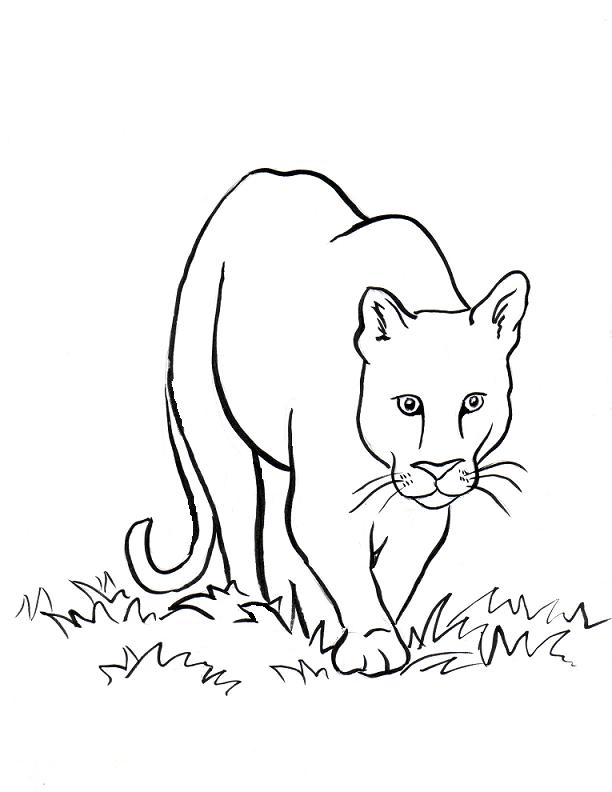
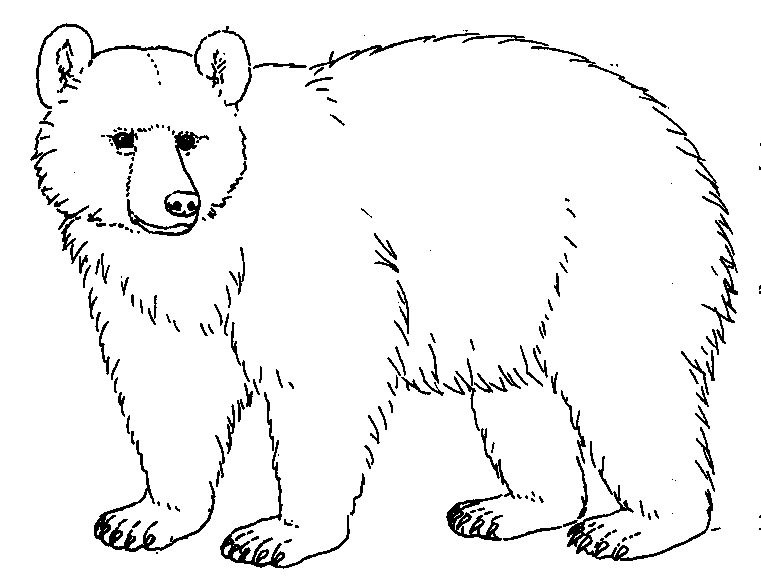
**Ecological Footprint = how much land, food, and energy you use**.

Can you calculate how much energy you use each day for everything you use? (eg) Water for brushing your teeth and showering...electricity for house and T.V....energy to get food to the store so your family can buy, cook, and store it.



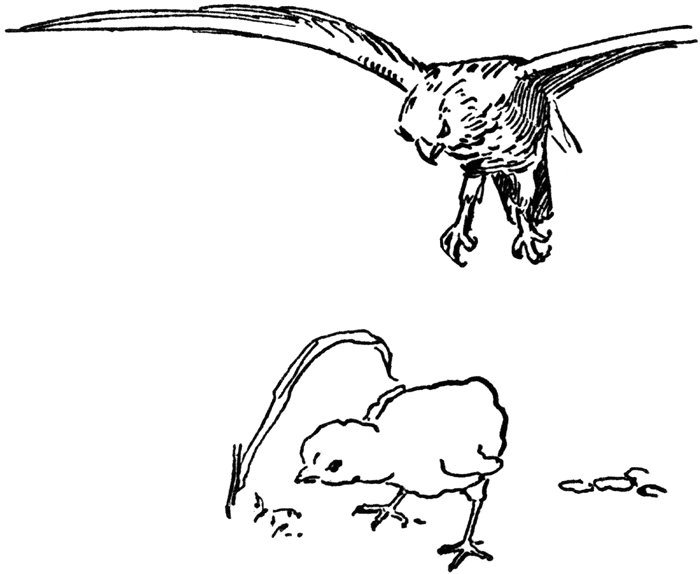
**Niche = The role/job of a plant or animal in its habitat**

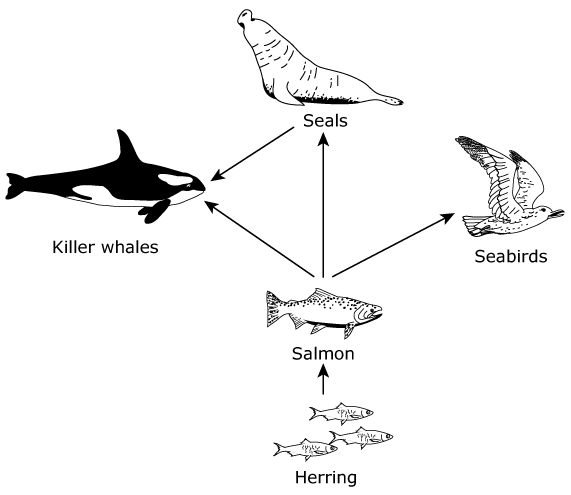
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1. **Producer** = a plant that can make their own food
2. **Consumer** = any organism that eats something for food.
3. **Herbivore** = an organism that only eats plants
4. **Carnivore** = an organism that only eats meat
5. **Omnivore =** an organism that can

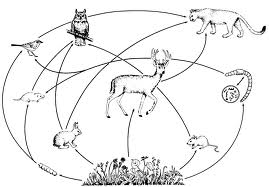
eat plant and animals for food.

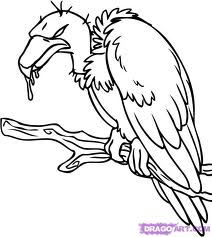
1. **Predator** = an animal that kills and eats other consumers
2. **Prey** = an animal that gets killed and eaten by a predator.



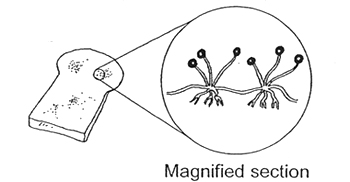
**Food Chain** = shows how food energy is passed from organism to organism.

**Food Web** = a number of simple food chains put together

[](http://www.google.ca/imgres?q=food+web+examples&um=1&hl=en&biw=1367&bih=726&tbs=itp:lineart&tbm=isch&tbnid=4hSFN25Jv8a3rM:&imgrefurl=http://www.pic2fly.com/Food-Web-Picture.html&docid=rZZ-q1gPevvwyM&imgurl=http://www.sciencescene.com/Environmental%2520Science/Graphics/TerrestrialFoodWeb.gif&w=1840&h=1283&ei=TUu8TuyfKIbmiAL9oKmXAw&zoom=1)

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**Scavenger** = organisms that eat dead plants and animals

**Decomposer** = organisms that grow on dead plants and animals to get nutrients from them. (Mould or Fungus)